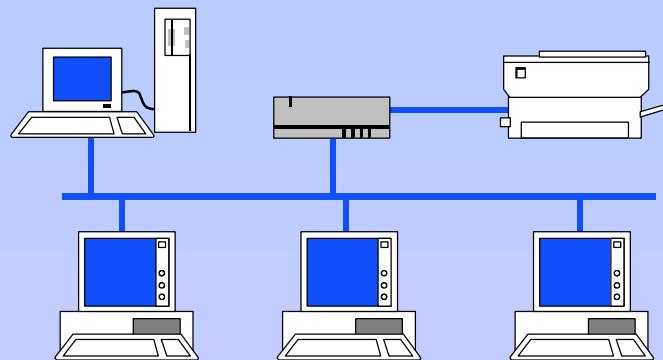
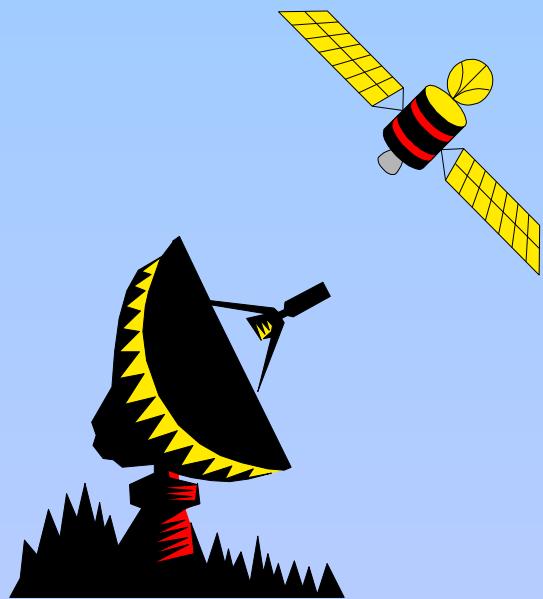
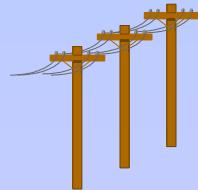
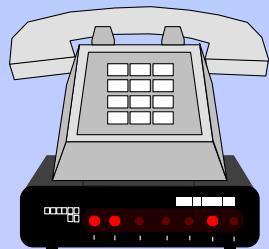
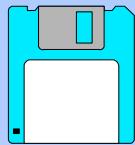
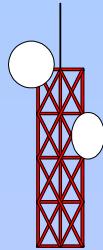


DON INFOSEC PRINCIPLES AND PROCEDURES FOR THE USER

COURSE OBJECTIVES

- Identify Navy INFOSEC Policies
- Risk Management
- Virus Prevention
- Application of Core Values in INFOSEC

WHAT IS INFOSEC?



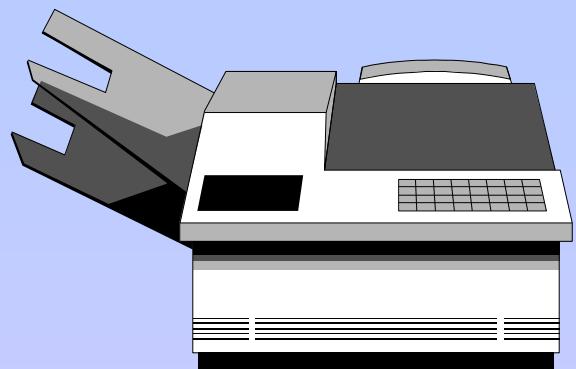
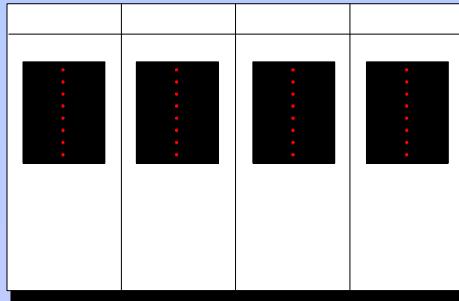
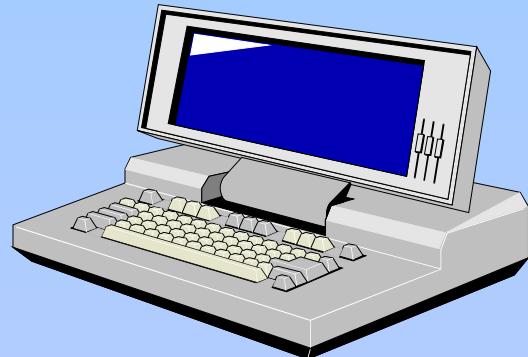
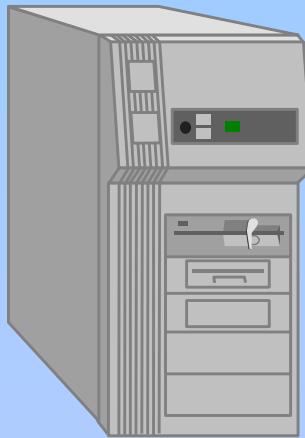
INFOSEC Considerations

- Hardware and Software
- Information
- Documentation
- Personnel
- Telecommunications

Introduction to Risk Management

- Terminology
 - Asset
 - Risk
 - Threat
 - Vulnerability
 - Countermeasure

Asset



Risk



Threat

Capabilities, Intentions, and Attack Methods of Adversaries to Exploit, or Any Circumstance or Event With the Potential to Cause Harm to Information or an Information System

(NAVO P-5239-02)

Natural Threats



Man-Made Threats

- Internal
- External
- Environmental
- Technical

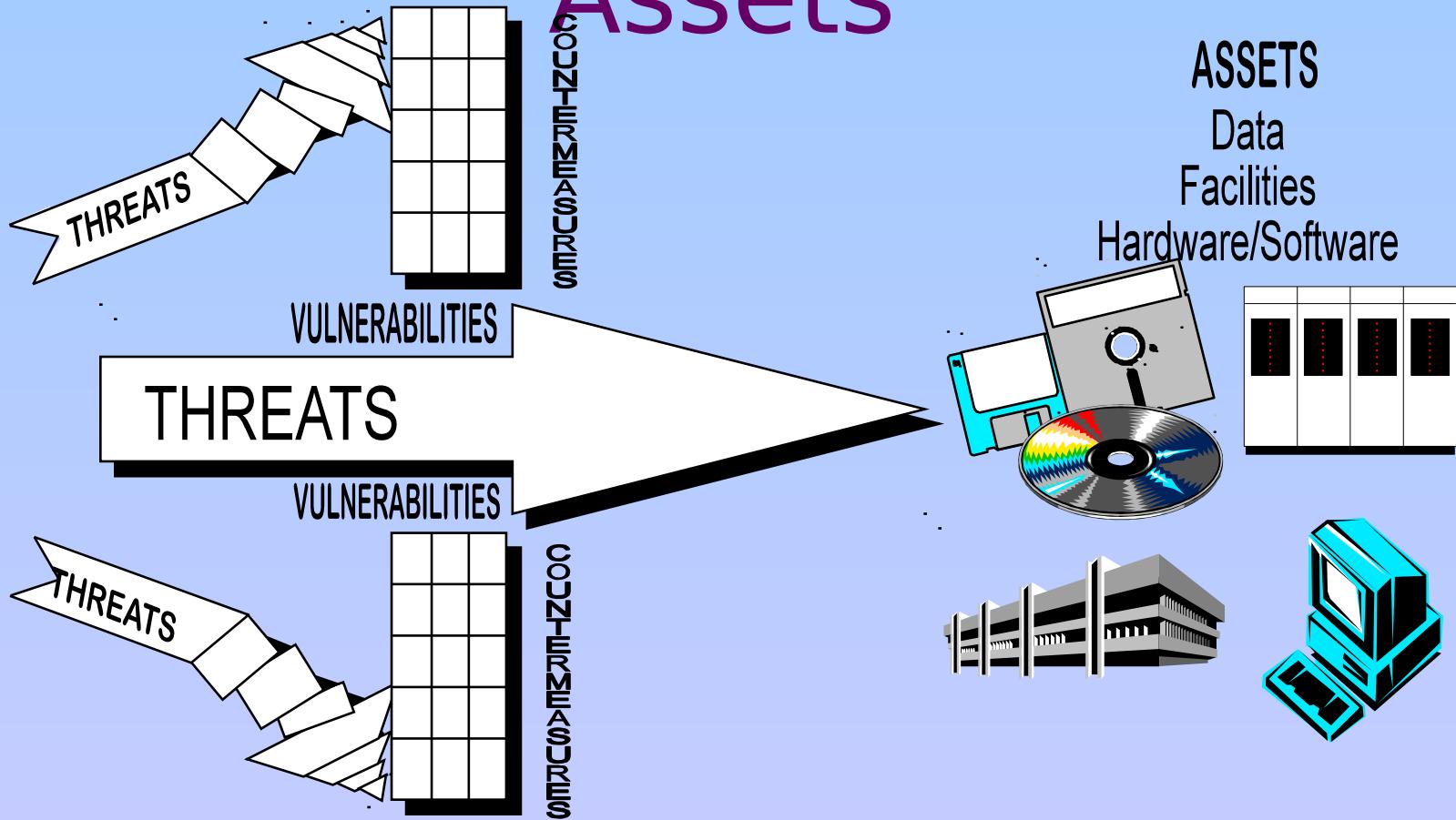
Vulnerability

- A Weakness in an Information System or Cryptographic System or Components That Could Be Exploited to Violate System Security Policy (NAVSO P-5239-02)

Safeguard/Countermeasur e



Threats, Vulnerabilities, Countermeasures and Assets

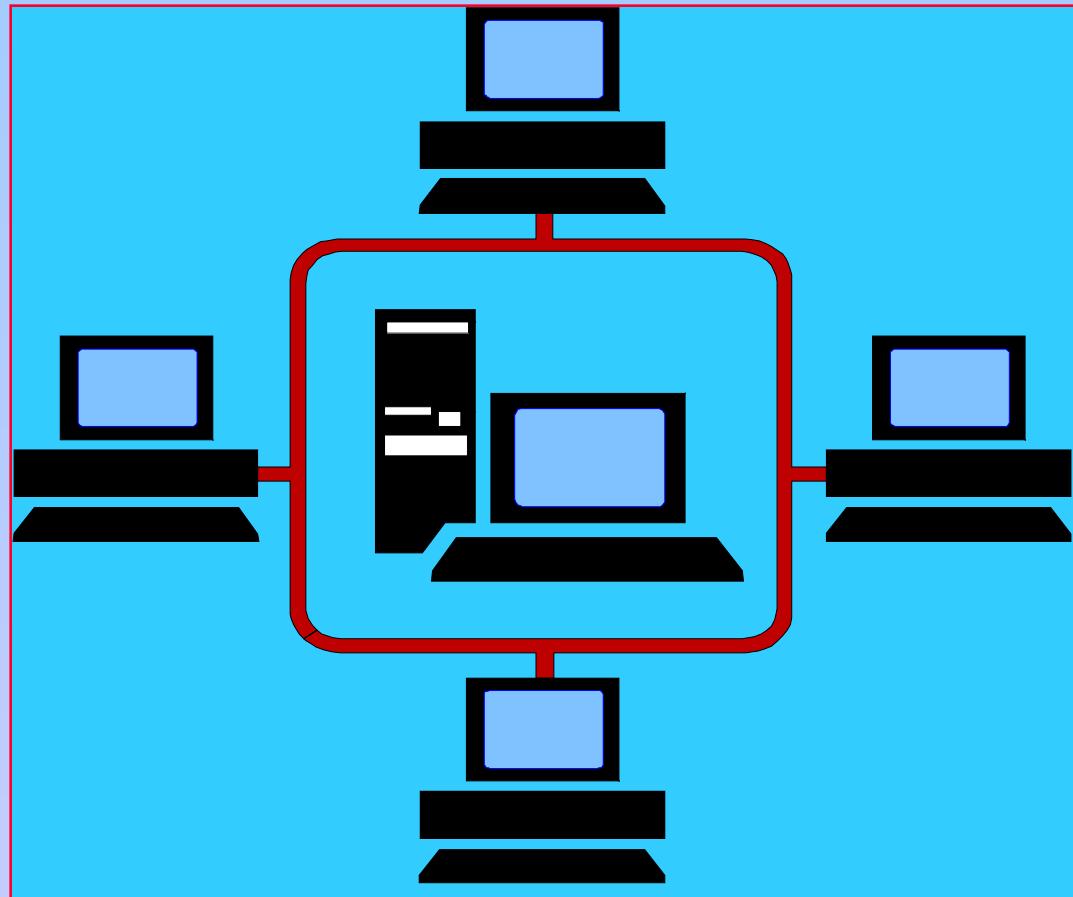


Risk Management

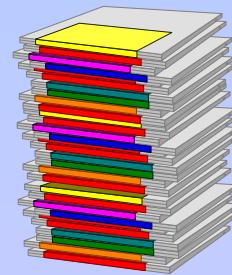
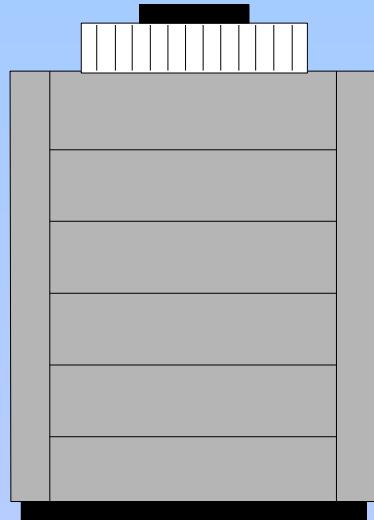
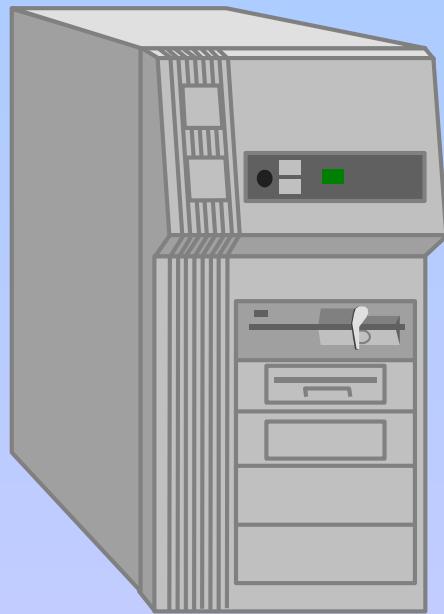
- The Process Concerned With the Identifying, Control, and Minimizing of Security Risks in Information Systems
- Contingency Planning
- Security Test & Evaluation
- Accreditation

Introduction to Network Security

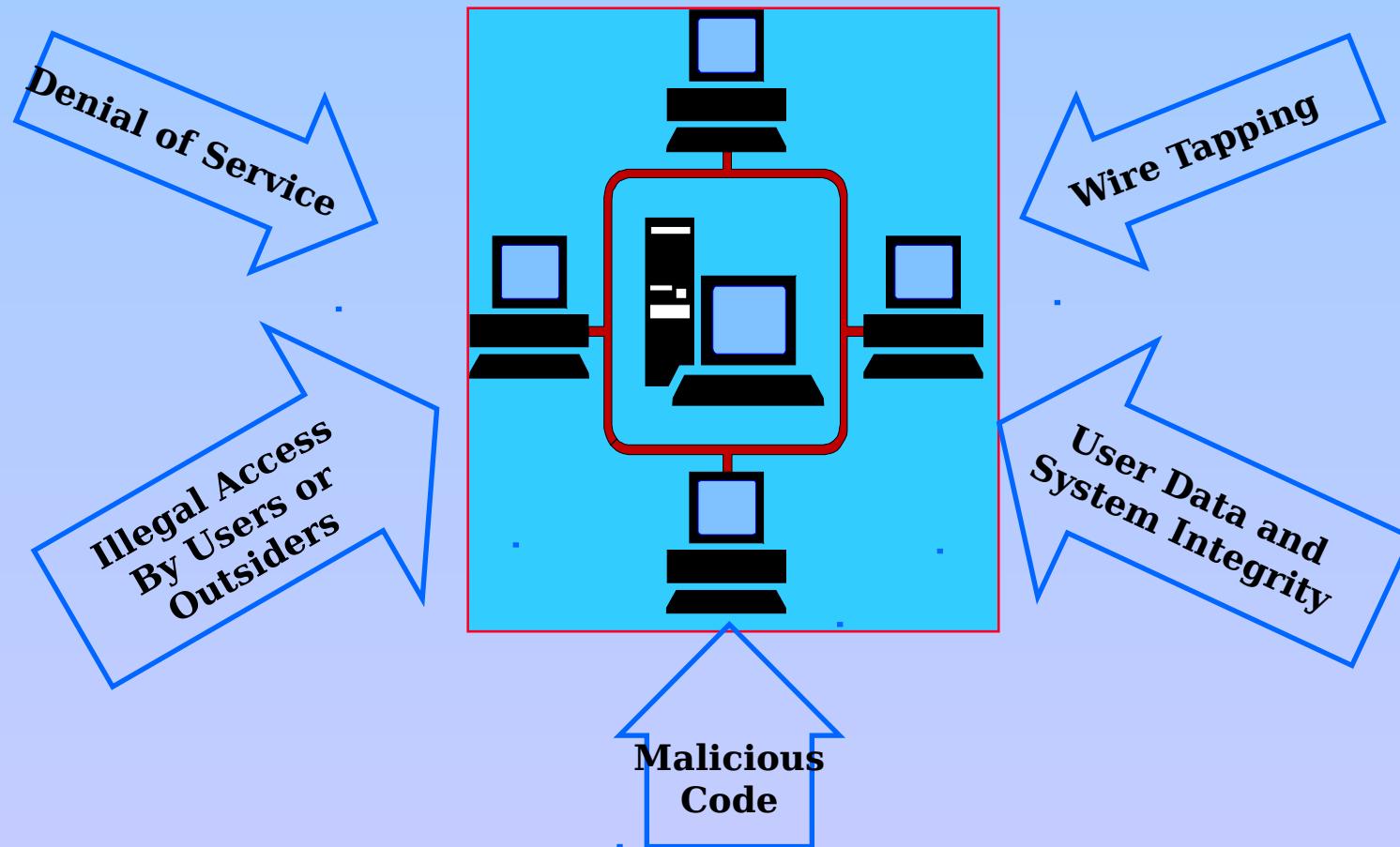
LAN Definition



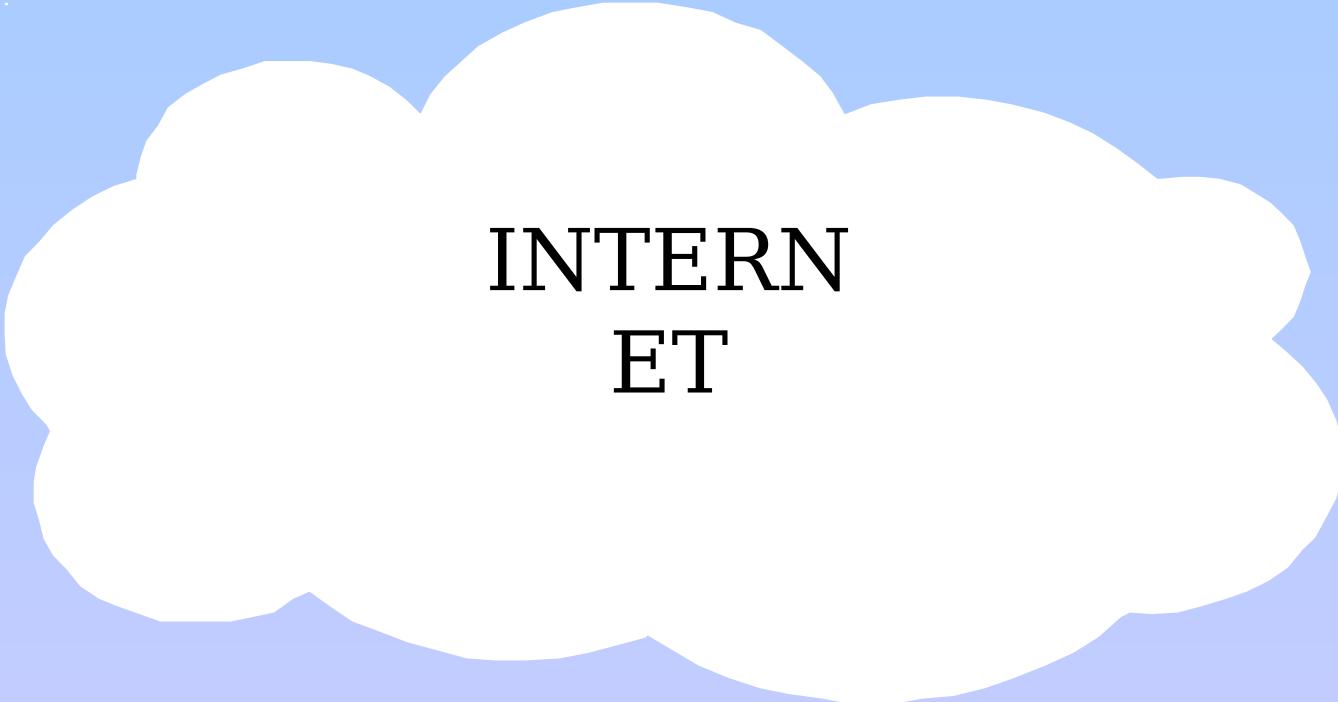
LAN Components



Network Vulnerabilities and Risks

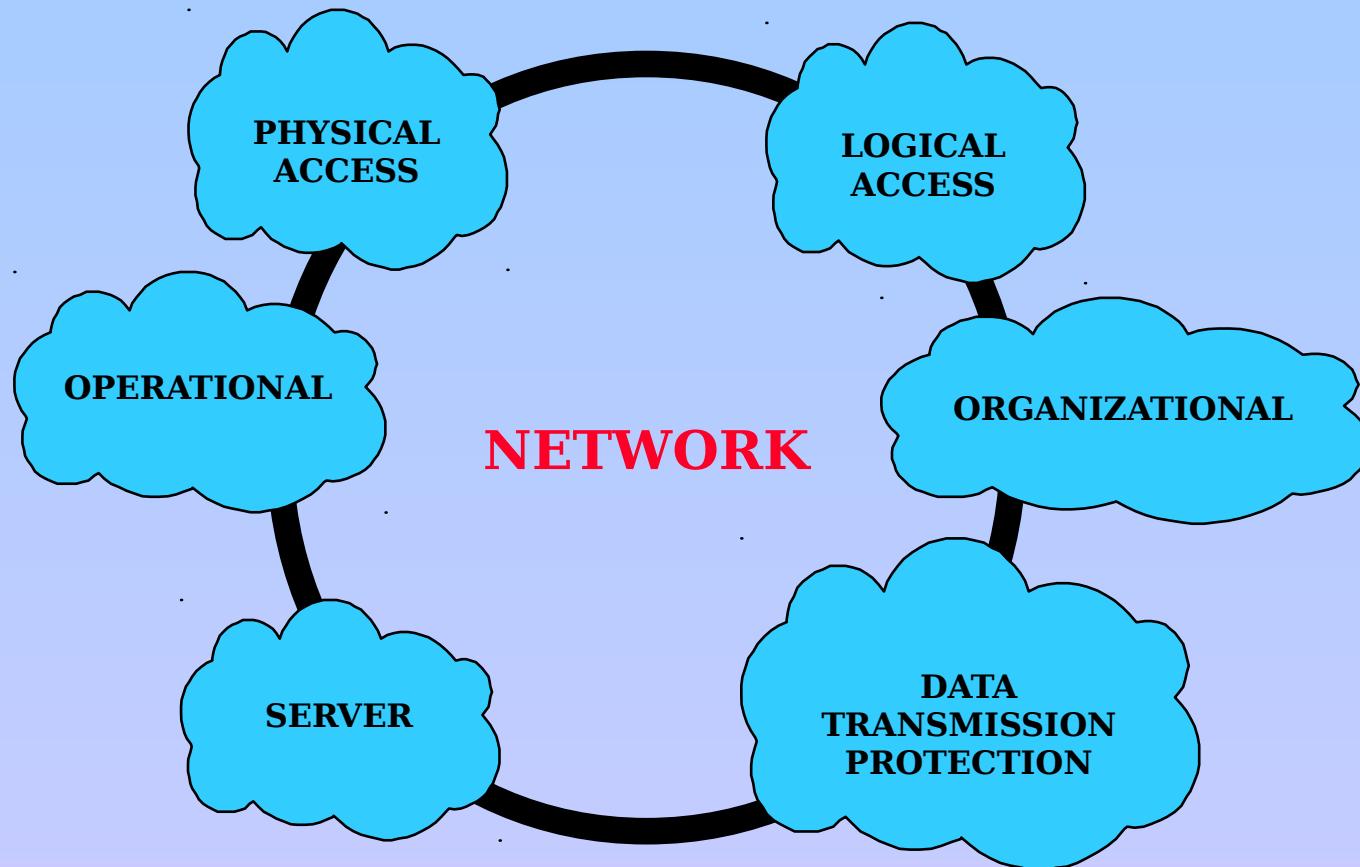


The Internet



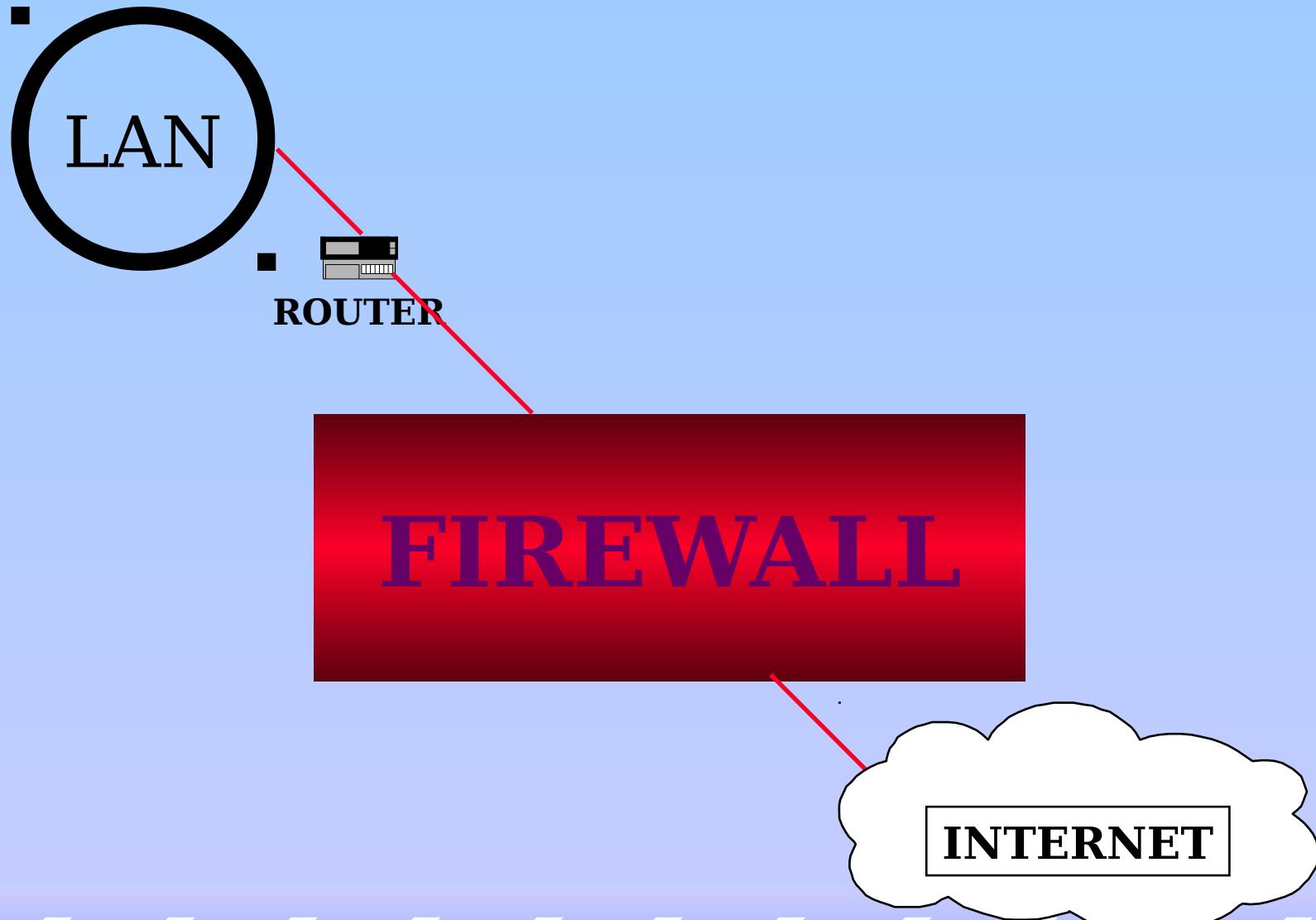
INTERN
ET

Network Security Controls



Network Security Services

- Centralized Management of Backups
- File Locking and Encryption Capability
- Access Control
- Authentication



DOD Warning Banner

USE OF THIS OR ANY OTHER DOD INTEREST COMPUTER SYSTEM
CONSTITUTES A CONSENT TO MONITORING AT ALL TIMES

WARNING ** CAUTION ** WARNING ** CAUTION ** WARNING ** CAUTION

**THIS IS A DEPARTMENT OF DEFENSE COMPUTER SYSTEM. THIS COMPUTER SYSTEM,
INCLUDING ALL RELATED EQUIPMENT, NETWORKS AND NETWORK DEVICES
(SPECIFICALLY INCLUDING INTERNET ACCESS), ARE PROVIDED ONLY FOR AUTHORIZED
U.S. GOVERNMENT USE. DOD COMPUTER SYSTEMS MAY BE MONITORED FOR ALL
LAWFUL**

**PURPOSES, INCLUDING TO ENSURE THAT THEIR USE IS AUTHORIZED, FOR
MANAGEMENT**

**OF THE SYSTEM, TO FACILITATE PROTECTION AGAINST UNAUTHORIZED ACCESS, AND
TO VERIFY SECURITY PROCEDURES, SURVIVABILITY AND OPERATIONAL SECURITY.
MONITORING INCLUDES ACTIVE ATTACKS BY AUTHORIZED DOD ENTITIES TO TEST
OR VERIFY THE SECURITY OF THIS SYSTEM. DURING MONITORING, INFORMATION MAY
BE EXAMINED, RECORDED, COPIED AND USED FOR AUTHORIZED PURPOSES. ALL
INFORMATION, INCLUDING PERSONAL INFORMATION, PLACED ON OR SENT OVER THIS
SYSTEM MAY BE MONITORED. USE OF THIS DOD COMPUTER SYSTEM, AUTHORIZED OR
UNAUTHORIZED, CONSTITUTES CONSENT TO MONITORING OF THIS SYSTEM.**

**UNAUTHORIZED USE MAY SUBJECT YOU TO CRIMINAL PROSECUTION. EVIDENCE OF
UNAUTHORIZED USE COLLECTED DURING MONITORING MAY BE USED FOR
ADMINISTRATIVE, CRIMINAL OR ADVERSE ACTION. USE OF THIS SYSTEM
CONSTITUTES CONSENT TO MONITORING FOR THESE PURPOSES.**

Malicious Code

NEWLY FORMATTED 3.5 DISKETTE - BOOTABLE
MICHELANGELO INFECTON

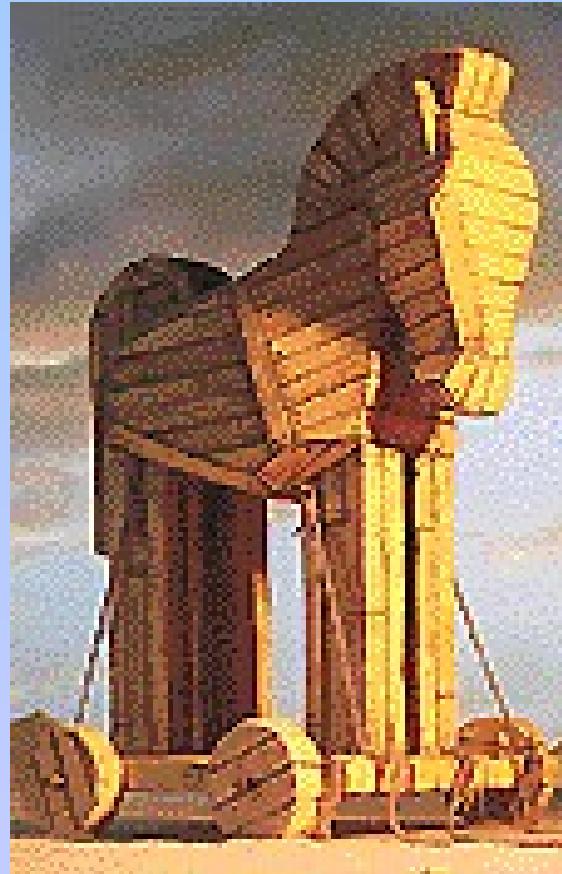
Physical Sector: Cyl 0, Side 0, Sector 1

00000000:	E6 AA 00 F1 00 70 9A 04	- 03 00 19 9D 00 A0 1C 50P
00000010:	0A D2 75 1B 33 C0 8E D8	- F6 06 3F 04 01 75 10 58	.u.3.....?..u.X
00000020:	1F 7C 2D FF 1E 0A 00 9A	- E8 0C 00 9A BA 02 00 58X
00000030:	1F 2E FF 2E 0A 00 50 53	- 51 52 1E 06 56 57 0E 1FPSQR..VW.
00000040:	0E 07 BE 04 00 B8 01 02	- BB 00 02 B9 01 00 33 D23.
00000050:	9C FF 1E 0A 00 73 0C 33	- C0 9C FF 1E 0A 00 4E 75s.3.....Nu
00000060:	E4 EB 43 33 F6 FC AD 3B	- 07 75 06 AD 3B 47 02 74	.C3...;u..;G.t

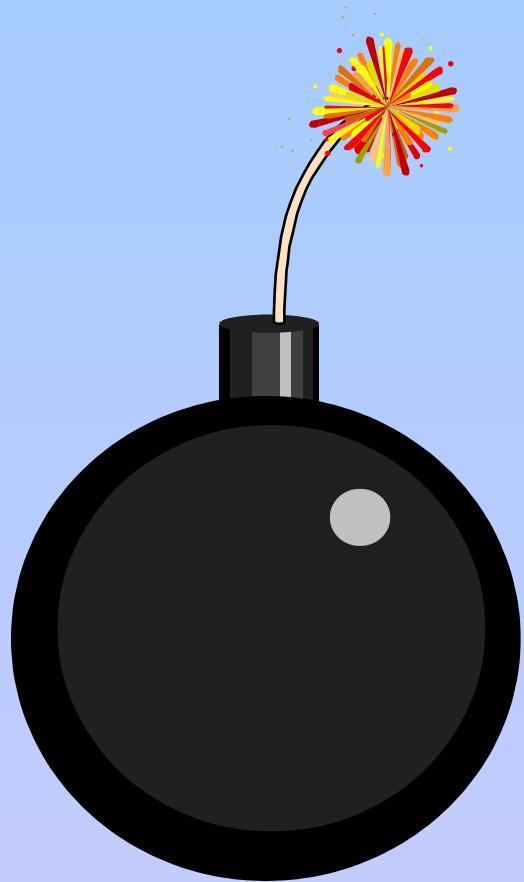
Worm



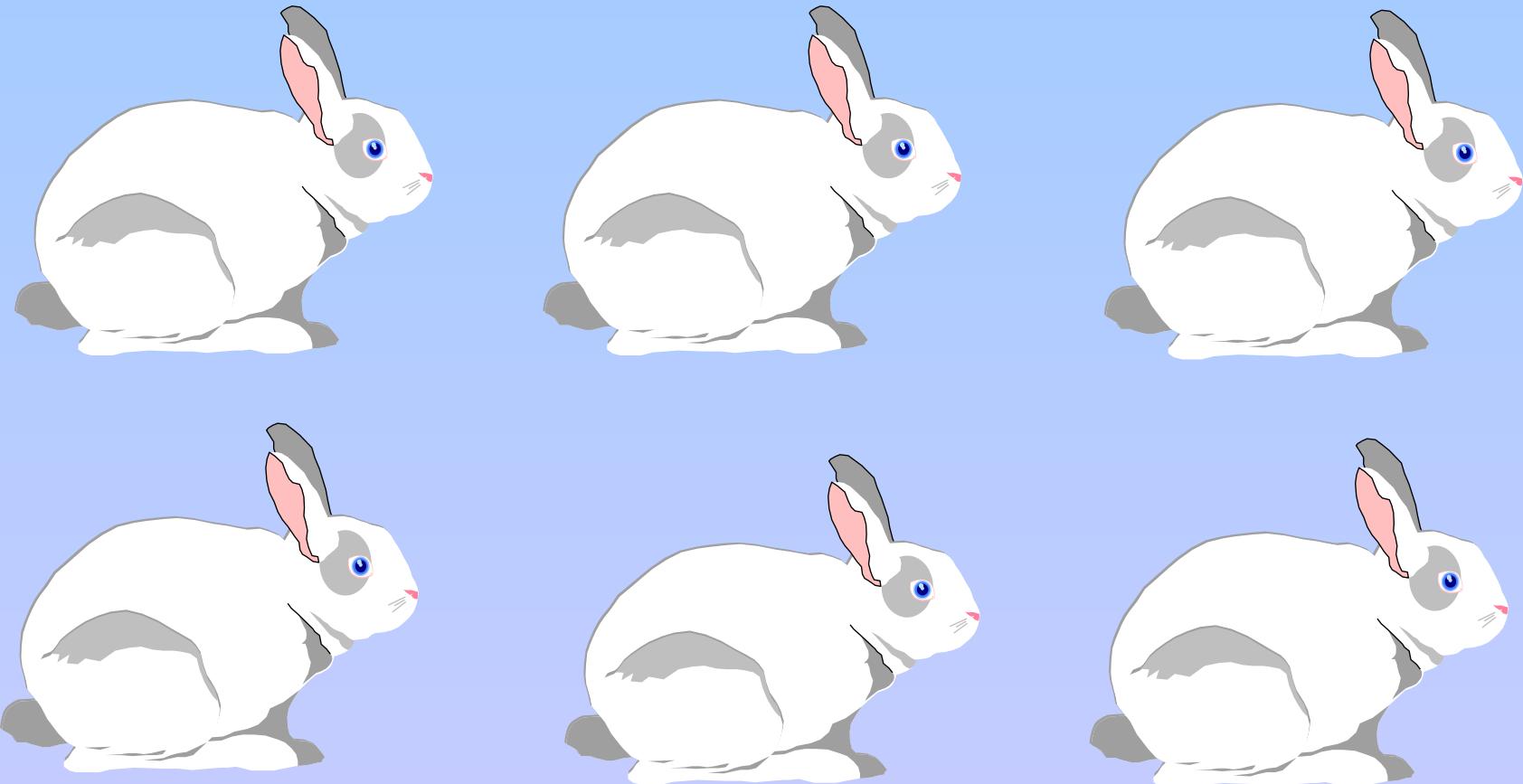
Trojan Horse



Bomb



Virus



Why Viruses Are Successful

- Lack of Awareness
- Absence of Adequate Controls
- Ineffective Use of Existing Controls
- Bugs/Loopholes in System Software
- Unauthorized System Use
- Network Misuse

What is the Cost?

- Labor
- Hardware
- Information Assets
 - Confidentiality
 - Integrity
 - Availability
- Public Relations/Customer Confidence

What Do You Look For?

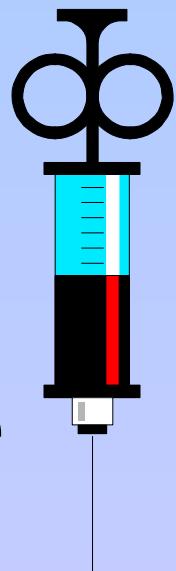
- Note Abnormal or Unexpected Activity
 - Displays, Music or Other Sounds
 - Slowdown in Processing Speed
 - Unusual Disk Activity
 - Error Messages
 - Changes in File Sizes
 - Loss of Programs or Data

If You Suspect an Infection

- STOP Processing
- Take Notes
- Call the ISSO/ISSM

Preventing Infection

- Configure System to Boot From C
- Use Latest Version of Anti-Viral Software
- Scan All Media Before Use
- Scan “New” Computer Systems
- Do Not Use Unapproved Software



Virus Scanners

- ScanProt
- F-Prot
- IBM Anti-Virus
- McAfee
- Norton Anti-Virus
- Microsoft Anti-Virus

Contingency Plan



Purpose of Contingency Planning

- Natural Disasters
- Viruses
- Cable Trouble
- Disk Crashes
- Loss of Power
- Hardware Failure
- Security Incidents



Contingency Plan Responsibilities



ISSM



We, The Users

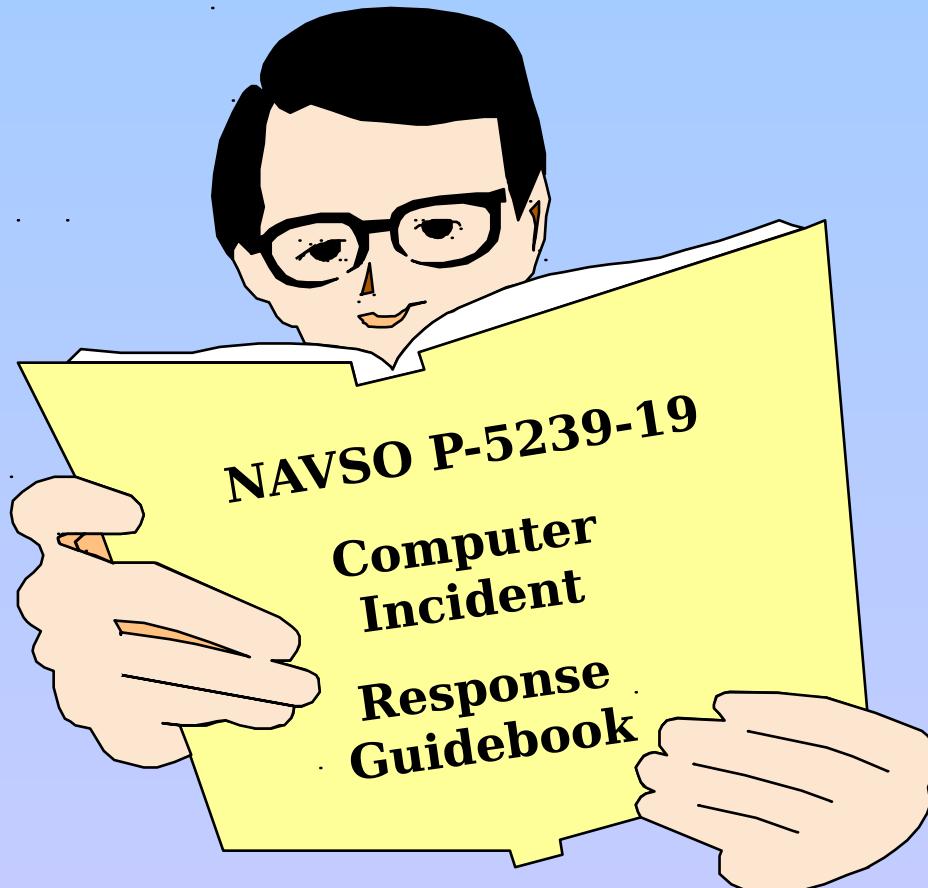


ISSO

Testing Contingency Plans

- Conduct Periodic Testing As Directed
- Perform Evaluation and Update
 - Annually
 - Completion of Risk Assessment
 - Addition of New Application

Computer Incidents



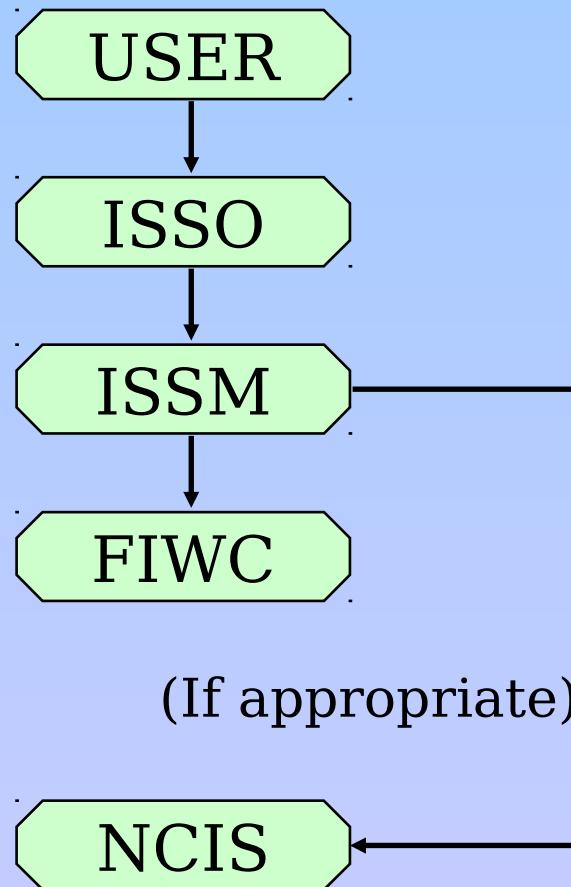
Incident Categories

- Malicious Code Attacks
- Unauthorized Access
- Disruption of Service
- Unauthorized Utilization of Services
- Espionage
- Hoaxes

Responsibilities

- Users
- ISSO/ISSM
- FIWC
 - NAVCIRT
- NCIS
- PAO

Reporting An Incident



Legal Considerations

- Display Warning Banner
- Monitor Systems and Networks
- Do Not Handle Evidence

SUMMARY

In This Lesson We:

- Identified Navy INFOSEC Policies
- Risk Management Procedures
- Discussed Virus Prevention
- Explained Application of Core Values in INFOSEC